Reglo ICC OEM Pump Module

Ismatec® Independent Channel Control Panel-Mount Pump (Patent Pending)

Pump Specifications

Motor Type: Stepper Motor (1/channel), 500 mA peak current

Speed Range: 0.1-100 RPM

Speed Setting: RPM (Resolution = 0.01 RPM)

Flow Rate Range: 0.0002 - 35 mL/min/channel (tubing dependent)

Number of Channels: 2-4

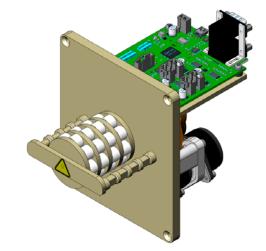
Cassettes:

Number of Rollers: 8 Ertalyte® rollers standard; 6 and 12-roller options also available

MS/CA Click'n'Go (POM-C and PVDF versions available)

Dimensions (HxWxD): See Back Page Weight: 6 lbs. (2.7 kg)
Power Consumption: 30 W (Max)
Main Voltage: 24 VDC
Protection Rating: IP 30

Differential Pressure: 1.0 bar / 14.5 psi (Max)



Flow Rate Range

4		4		4	
6		8		12	
3 Color Code		3 Color Code		3 Color Code	
0.1	100	0.1	100	0.1	100
ml/min Flow rates		ml/min Flow rates		ml/min Flow rates	
min.	max.	min.	max.	min.	max.
0.0002	0.14	0.0002	0.11	0.0001	0.093
0.0019	1.9	0.0017	1.7	0.0016	1.6
0.0024	2.4	0.0021	2.1	0.0019	1.9
0.0030	3.0	0.0026	2.6	0.0024	2.4
0.0064	6.4	0.0056	5.6	0.0050	5.0
0.0073	7.3	0.0063	6.3	0.0056	5.6
0.013	13	0.011	11	0.094	9.4
0.019	19	0.016	16	0.013	13
0.021	21	0.017	17	0.013	13
0.033	33	0.027	27	0.019	19
0.037	37	0.031	31	0.021	21
0.043	43	0.035	35	0.024	24
	min. 0.0002 0.0019 0.0024 0.0030 0.0064 0.0073 0.019 0.021 0.033 0.037	6 3 Color Code 0.1 100 ml/min Flow rates min. max. 0.0002 0.14 0.0019 1.9 0.0024 2.4 0.0030 3.0 0.0064 6.4 0.0073 7.3 0.013 13 0.019 19 0.021 21 0.033 33 0.037 37	6 8 3 Color Code 3 Color 0.1 100 0.1 ml/min Flow rates Flow r min. max. min. 0.0002 0.14 0.0002 0.0019 1.9 0.0017 0.0024 2.4 0.0021 0.0030 3.0 0.0026 0.0064 6.4 0.0056 0.0073 7.3 0.0063 0.013 13 0.011 0.019 19 0.016 0.021 21 0.017 0.033 33 0.027 0.037 37 0.031	6 8 3 Color Code 3 Color Code 0.1 100 0.1 100 ml/min Flow rates min. max. min. max. 0.0002 0.14 0.0002 0.11 0.0019 1.9 0.0017 1.7 0.0024 2.4 0.0021 2.1 0.0030 3.0 0.0026 2.6 0.0064 6.4 0.0056 5.6 0.0073 7.3 0.0063 6.3 0.013 13 0.011 11 0.019 19 0.016 16 0.021 21 0.017 17 0.033 33 0.027 27 0.037 37 0.031 31	6 8 13 3 Color Code 3 Color Code 3 Color 0.1 100 0.1 100 0.1 ml/min Flow rates Flow rates Flow rates min. max. min. max. min. 0.0002 0.14 0.0002 0.11 0.0001 0.0019 1.9 0.0017 1.7 0.0016 0.0024 2.4 0.0021 2.1 0.0019 0.0030 3.0 0.0026 2.6 0.0024 0.0064 6.4 0.0056 5.6 0.0050 0.0073 7.3 0.0063 6.3 0.0056 0.0073 7.3 0.0063 6.3 0.0056 0.013 13 0.011 11 0.094 0.019 19 0.016 16 0.013 0.021 21 0.017 17 0.013 0.033 33 0.027 27 0.019 0.037 37 0.031 31 0.021

(Note: Flow rates assume no differential pressure drop and the use of Tygon® tubing. Other tubing sizes and formulations are available.)

Available Tubing Sizes

Inner Diameter Range: 0.13 - 3.17 mm (tubing material dependent)

Wall Thickness: ~0.8 mm

Please Note: All tubing must have stoppers with correct spacing to be used with MS/CA cassettes

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Document # RegloICC_Panel_Mount_Rev

Reglo ICC OEM Pump Module

Ismatec® Independent Channel Control Panel-Mount Pump (Patent Pending)

Environmental Conditions

Operational

Temperature Range: +5 °C to +40 °C (+41 °F to +104 °F) Relative Humidity: up to 80% (non-condensing) <u>Storage</u>

-10 °C to +50 °C (+14 °F to +122 °F) up to 80% (non-condensing)

Harmonized Tariff Schedule (HTS) Code & ECCN

8413.60.0090 / EAR99

Supported Communication Protocol



USB interface or RS-232 interface.

Connections (at rear of printed wire circuit board):

RS-232 In (DB9-female) RS-232 Out (DB9-male) USB 2.0. Mini-B

Operating Modes (Each Channel Independent)

Flow Rate: continuous operation at a set rate and direction
Volume Over Time: dispensing a desired volume over a desired time
Volume: dispensing a desired volume at a set flow rate
Time Mode: dispensing for a set time duration with a set flow rate

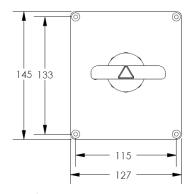
Volume With Pause: dispensing a set volume over multiple cycles with defined pause time in between

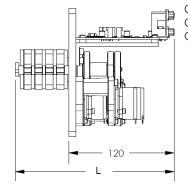
Time With Pause: dispensing for a set time duration over multiple cycles with defined pause time in between

Calibration: allows each channel to be calibrated for dispensed fluid volume accuracy

More complex routines are available through the use of the available software. Additionally, up to eight pumps can be connected to a computer at once, either by a USB hub or daisy chaining the RS-232 in/out connectors on the pump(s). (Note: For full functionality of each channel via RS-232 control, each pump must be directly connected to a serial interface such as Hypercom or PuTTY.) In addition to the standard daisy chain connection, the ICC firmware will support using one module to control a second, "slave" module to expand the number of channels being controlled in an OEM device.

Dimensions





Overall Height: 145 mm (~5.7") Overall Width: 127 mm (~5.0")

Overall Length: 157 mm (~6.2") - 2-channel

169 mm (~6.7") - 3-channel 182 mm (~7.2") - 4-channel

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